

Gladys Briggs 210H

Marshall County, WV
SDC 40
Plan vs Actual

Plan Data for Gladys Briggs 210H

Plan Point Information:
Dogleg Severity Unit: %/100.00ft

MD (USft)	Inc (°)	Az (°)	TVD (USft)	+N/-S (USft)	+E/-W (USft)	VSec (USft)	DLS (DLSU)	Toolface (°)
0.00	0.00	0.00	0.00	-0.00	0.00	0.00	0.00	0.0
900.00	0.00	0.00	900.00	-0.00	0.00	0.00	0.00	0.0
1100.00	4.00	60.00	1099.84	3.49	6.04	4.03	2.00	60.0
1600.00	4.00	60.00	1598.62	20.93	36.25	24.16	0.00	0.0
2000.00	0.00	0.00	1998.29	27.91	48.34	32.21	1.00	180.0
2792.50	0.00	0.00	2790.79	27.91	48.34	32.21	0.00	0.0
4292.50	30.00	26.00	4223.19	372.87	216.59	40.59	2.00	26.0
5668.31	30.00	26.00	6280.70	1440.55	737.33	66.50	0.00	0.0
7811.83	70.00	131.22	7111.08	1323.83	1373.85	693.42	7.00	113.0
8030.67	89.66	130.04	7149.53	1184.31	1536.57	899.60	9.00	356.5
14549.36	89.66	130.04	7188.00	-3008.98	6527.37	7187.53	0.00	0.0

Target Set Information:
Name: GLADYS BRIGGS 210H TARGETS

Name	TVD (USft)	+N/-S (USft)	+E/-W (USft)	Northing (USft)	Easting (USft)	Lat (°)	Long (°)
LP 210H	7149.00	1242.67	1467.11	14443413.16	1749849.44	39.770528	-80.610541
PBHL 210H	7188.00	-3008.98	6527.37	14439161.51	1754909.70	39.758790	-80.592681

Plan Data for Gladys Briggs 210H

Field: SOUTHWESTERN MARSHALL CO, WV UTM NAD 83 (17N)
Map Unit: USft Vertical Reference Datum (VRD): Mean Sea Level
Projected Coordinate System: NAD83 / UTM zone 17N

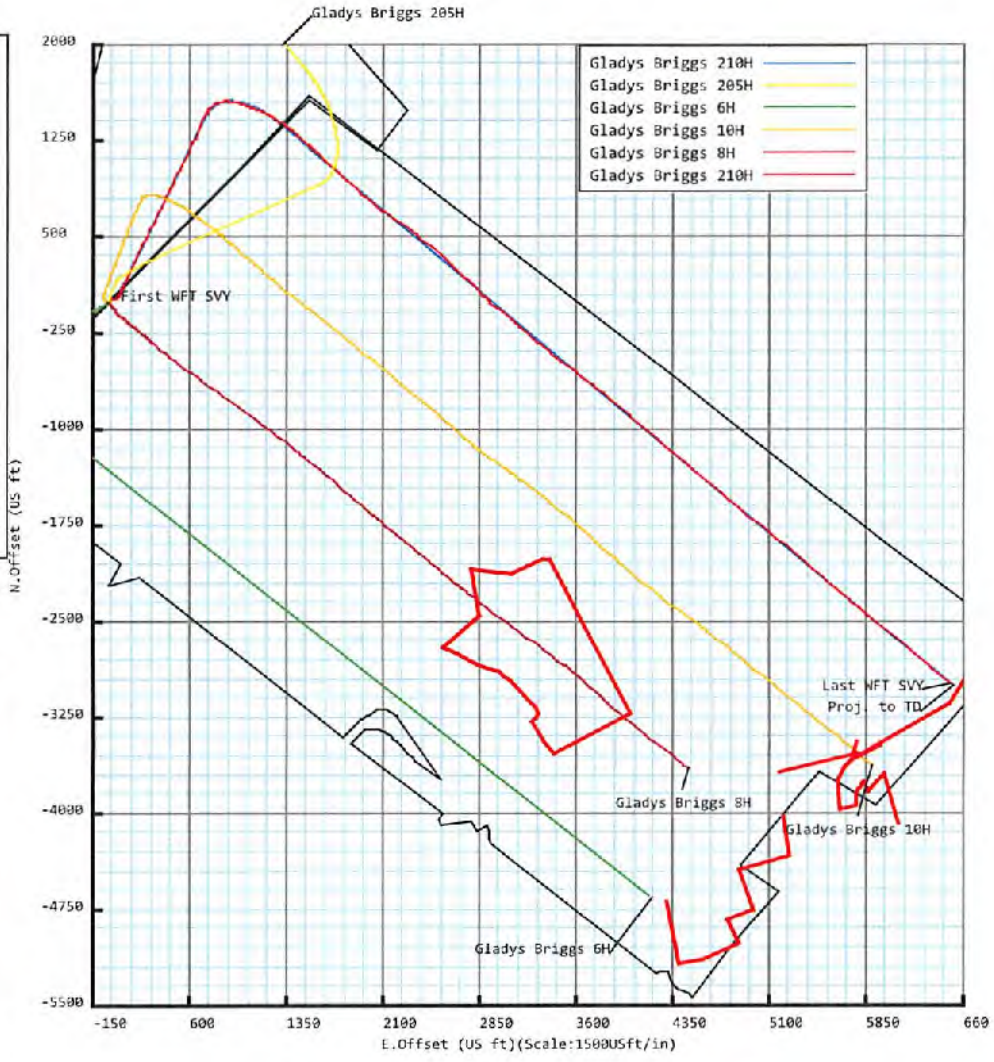
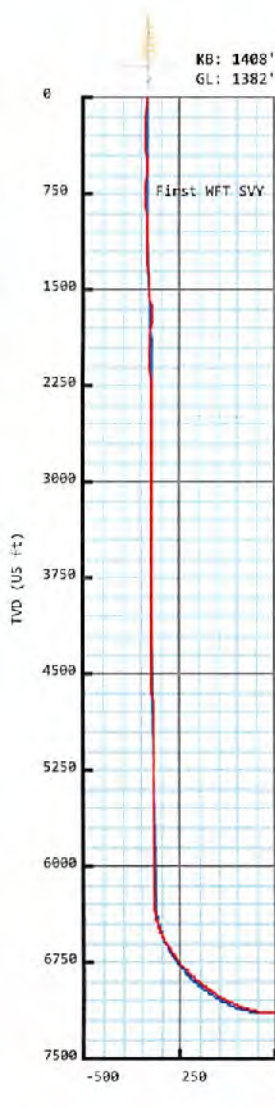
Site: Gladys Briggs Pad
Unit: USFeet TVD Reference:
Company Name: SOUTHWESTERN ENERGY

Position: Northing: 14442131.72USft Latitude: 39.767027°
Easting: 1748342.31USft Longitude: -80.615924°
North Reference: Grid Grid Convergence: 0.25°
Elevation Above VRD: 1382.00USft

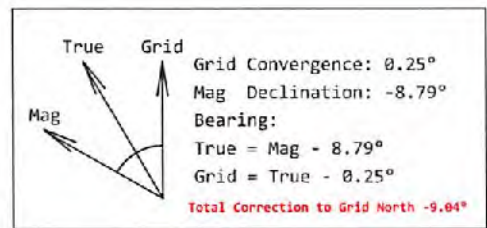
Slot: Gladys Briggs 210H
Position:
Offset is from Site centre
+N/-S: 38.77USft Northing: 14442170.49USft Latitude: 39.767133°
+E/-W: 40.02USft Easting: 1748382.33USft Longitude: -80.615782°
Elevation Above VRD: 1382.00USft

Well: Gladys Briggs 210H
Type: Main-Well
File Number:

Plan Folder: P1 Plan: P1:V4
Vertical Section: Position offset of origin from Slot centre:
+N/-S: -0.00USft Azimuth: 136.96°
+E/-W: 0.00USft
Magnetic Parameters:
Model: Field Strength: Declination: Dip: Date:
bggm2016 52284(nT) -8.79° 66.94° 2017-01-23



RECEIVED
Office of Oil and Gas
JUL 12 2017
WV Department of Environmental Protection



Drawing By: GWR Date: 01/21/2017
Weatherford Drilling Services
7725 W. Reno, Ste. #220
Oklahoma City, OK 73127
+1.405.773.1100 Main
+1.405.773.1887 Fax



**5D Survey Report****SOUTHWESTERN ENERGY**

Field Name: *SOUTHWESTERN_MARSHALL CO, WV UTM NAD 83
(17N)*

Site Name: *Gladys Briggs Pad*

Well Name: *Gladys Briggs 210H*

Survey: *Definitive survey*

6 February 2017

RECEIVED
Office of Oil and Gas
JUL 12 2017
WV Department of
Environmental Protection



Gladys Briggs 210H

Map Units: US ft	Company Name: SOUTHWESTERN ENERGY
Field Name:	Vertical Reference Datum (VRD): Mean Sea Level
SOUTHWESTER N_MARSHALL CO, WV UTM NAD 83 (17N)	Projected Coordinate System: NAD83 / UTM zone 17N
	Comment:

Site: Gladys Briggs Pad	Units: US ft	North Reference: Grid	Convergence Angle: 0.25
	Position:	Northing: 14442131.72 US ft	Latitude: 39.767027000
		Easting: 1748342.31 US ft	Longitude: -80.615924000
	Elevation above MSL: 1382.00 US ft		
	Comment:		

Slot: Gladys Briggs 210H	Position (Relative to Site Centre)		
	+N/-S: 38.77 US ft	Northing: 14442170.49 US ft	Latitude: 39.767133000
	+E/-W: 40.02 US ft	Easting: 1748382.33 US ft	Longitude: -80.615781000
	Elevation above MSL: 1382.00 US ft		
	Comment:		

Well: Gladys Briggs 210H	Type: Main well	UWI:
	File Number:	Comment:
	Closure Distance: 7186.46 US ft	Closure Azimuth: 114.75°
	Vertical Section: Position of Origin (Relative to Slot centre)	
	+N/-S: -0.00 US ft	+E/-W: 0.00 US ft Az: 114.75°

RECEIVED
Office of Oil and Gas
JUL 12 2017
WV Department of
Environmental Protection

Drill floor: Survey Name: Definitive Survey			
Rig Height (Drill Floor): 26.00us ft	Elevation above MSL: 1408.00us ft	Inclination: 0.00°	Azimuth: 0.00°

Survey Name: Definitive Survey			
Date: 19/Oct/2015	Survey Tool: See Survey Tool Ranges below.	Comment:	Company:

Magnetic Model:				
Model Name: bggm2016	Date: 23/Jan/2017	Field Strength: 52283.9nT	Declination: -8.79°	Dip: 66.94°

Tie Point:						
MD: 0.00 US ft	Inclination: 0.00°	Azimuth: 0.00°	TVD: 0.00 US ft	North Offset: -0.00 US ft	East Offset: 0.00 US ft	

Survey Tool Ranges:			
Name	Start MD(USFt)	End MD(USFt)	Source Survey
MWD	0.00	679.00	Rig Surveys
NO SURV 5d	679.00	1306.00	NO SURV 5d
MWD	1306.00	2587.00	WFT MWD_01
MWD	2587.00	4570.00	WFT MWD_02
MWD	4570.00	14528.00	WFT MWD_03

Wellpath created using minimum curvature.

5D Survey Report

Survey Points: (Relative to Slot centre)(TVD relative to Drill Floor)										Comment
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	VS (US ft)	N.Offset (US ft)	E.Offset (US ft)	Northing (US ft)	Easting (US ft)	DLS (%/100US ft)	
0.00	0.00	0.00	0.00	-0.00	-0.00	0.00	14442170.49	1748382.33	0.00	
141.00	0.60	346.73	141.00	-0.45	0.72	-0.17	14442171.21	1748382.16	0.43	
232.00	0.50	347.53	231.99	-0.99	1.57	-0.36	14442172.05	1748381.97	0.11	
324.00	0.60	103.03	323.99	-0.76	1.85	0.02	14442172.34	1748382.35	1.01	
416.00	0.40	149.13	415.99	-0.02	1.47	0.65	14442171.95	1748382.98	0.47	
506.00	0.10	120.03	505.99	0.31	1.16	0.88	14442171.65	1748383.21	0.35	
592.00	0.50	310.73	591.99	0.03	1.37	0.66	14442171.85	1748382.99	0.70	
679.00	0.10	110.93	678.98	-0.26	1.59	0.45	14442172.08	1748382.78	0.68	
766.00	0.10	127.73	765.98	-0.11	1.51	0.58	14442172.00	1748382.91	0.03	First WFT SVY
859.00	0.37	202.68	858.98	-0.01	1.15	0.52	14442171.64	1748382.85	0.35	
956.00	1.19	94.09	955.98	0.84	0.83	1.31	14442171.32	1748383.64	1.56	
1043.00	2.36	82.39	1042.93	3.20	1.00	3.99	14442171.49	1748386.32	1.40	
1129.00	2.86	80.23	1128.85	6.47	1.60	7.86	14442172.09	1748390.19	0.59	
1216.00	3.41	76.40	1215.71	10.28	2.58	12.51	14442173.07	1748394.84	0.68	
1306.00	3.88	81.00	1305.53	14.91	3.68	18.12	14442174.17	1748400.45	0.61	
1398.00	4.39	79.69	1397.29	20.38	4.80	24.66	14442175.29	1748406.99	0.56	
1488.00	5.03	68.39	1486.99	25.93	6.87	31.72	14442177.36	1748414.05	1.25	
1581.00	4.66	48.17	1579.66	30.24	10.89	38.32	14442181.38	1748420.65	1.87	
1673.00	3.94	29.51	1671.41	31.99	16.13	42.66	14442186.62	1748425.00	1.70	
1766.00	2.59	11.67	1764.26	31.78	20.97	44.66	14442191.46	1748427.00	1.80	
1858.00	1.93	357.25	1856.19	30.59	24.56	45.01	14442195.05	1748427.34	0.94	
1951.00	1.28	5.01	1949.15	29.52	27.16	45.03	14442197.65	1748427.36	0.74	
2044.00	0.97	39.03	2042.13	29.36	28.80	45.61	14442199.29	1748427.94	0.78	
2136.00	0.85	81.72	2134.12	30.13	29.50	46.78	14442200.00	1748429.11	0.73	
2229.00	1.46	100.86	2227.10	31.86	29.38	48.62	14442199.87	1748430.96	0.77	
2322.00	1.19	94.97	2320.08	33.92	29.07	50.75	14442199.56	1748433.08	0.32	
2414.00	1.22	73.72	2412.06	35.55	29.27	52.64	14442199.76	1748434.97	0.48	
2507.00	1.44	69.79	2505.03	37.13	29.95	54.69	14442200.44	1748437.02	0.26	
2587.00	1.79	76.12	2585.00	38.81	30.59	56.84	14442201.08	1748439.18	0.49	
2721.00	2.13	77.29	2718.92	42.43	31.64	61.31	14442202.13	1748443.64	0.26	
2814.00	2.49	35.76	2811.85	44.18	33.66	64.17	14442204.15	1748446.50	1.80	
2904.00	4.12	12.41	2901.71	43.87	38.41	66.01	14442208.90	1748448.34	2.31	
2996.00	5.92	20.97	2993.35	42.85	46.07	68.42	14442216.56	1748450.75	2.11	
3089.00	7.61	24.65	3085.70	42.52	56.14	72.70	14442226.63	1748455.03	1.88	
3179.00	8.85	23.26	3174.77	42.33	67.92	77.92	14442238.41	1748460.25	1.40	
3271.00	10.39	23.14	3265.47	41.91	82.05	83.98	14442252.54	1748466.31	1.67	
3364.00	11.98	26.71	3356.71	42.01	98.39	91.61	14442268.88	1748473.94	1.86	
3457.00	12.82	22.83	3447.54	41.99	116.52	99.95	14442287.01	1748482.29	1.27	
3549.00	14.28	22.63	3536.97	41.23	136.40	108.28	14442306.89	1748490.61	1.59	
3642.00	16.24	25.62	3626.69	41.00	158.71	118.32	14442329.20	1748500.65	2.27	
3735.00	18.31	28.42	3715.49	42.14	183.29	130.90	14442353.78	1748513.23	2.40	
3828.00	20.84	24.63	3803.12	43.04	211.18	144.75	14442381.67	1748527.08	3.04	
3921.00	23.03	21.30	3889.38	41.91	243.17	158.25	14442413.66	1748540.58	2.71	
4013.00	23.73	23.37	3973.83	40.38	276.93	172.13	14442447.42	1748554.46	1.17	
4106.00	24.92	23.25	4058.57	39.41	312.11	187.29	14442482.61	1748569.62	1.28	
4199.00	25.67	23.86	4142.65	38.59	348.54	203.17	14442519.03	1748585.50	0.85	
4291.00	26.03	25.03	4225.45	38.38	385.05	219.77	14442555.54	1748602.10	0.68	
4384.00	26.85	26.73	4308.72	39.20	422.31	237.86	14442592.80	1748620.19	1.21	
4477.00	27.65	26.33	4391.39	40.52	460.41	256.88	14442630.90	1748639.21	0.87	
4570.00	28.40	26.00	4473.49	41.60	499.63	276.14	14442670.12	1748658.48	0.82	
4667.00	27.96	27.00	4576.62	43.29	549.08	300.79	14442719.57	1748683.12	0.55	
4779.00	29.64	27.67	4657.24	45.29	588.45	321.15	14442758.94	1748703.48	1.86	
4872.00	31.13	27.63	4737.46	47.67	630.11	342.98	14442800.60	1748725.31	1.60	
4965.00	30.75	26.12	4817.23	49.45	672.76	364.60	14442843.25	1748746.93	0.93	
5058.00	30.85	24.99	4897.11	50.12	715.72	385.14	14442886.21	1748767.47	0.63	
5151.00	30.94	26.22	4976.92	50.83	758.78	405.77	14442929.27	1748788.10	0.69	
5243.00	30.86	25.29	5055.86	51.66	801.33	426.30	14442971.82	1748808.63	0.53	
5336.00	31.20	24.63	5135.55	51.83	844.79	446.53	14443015.29	1748828.86	0.52	

RECEIVED
Office of Oil and Gas
JUL 12 2017
WV Department of
Environmental Protection

5D Survey Report

Survey Points: (Relative to Slot centre)(TVD relative to Drill Floor)										Comment
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	VS (US ft)	N. Offset (US ft)	E. Offset (US ft)	Northing (US ft)	Easting (US ft)	DLS (%/100US ft)	
5429.00	29.61	23.66	5215.76	51.34	887.74	465.79	14443058.23	1748848.12	1.79	
5521.00	30.59	25.72	5295.35	51.31	929.65	485.07	14443100.14	1748867.40	1.55	
5614.00	30.45	26.06	5375.47	52.25	972.14	505.69	14443142.63	1748888.03	0.24	
5707.00	30.26	26.14	5455.72	53.35	1014.34	526.37	14443184.83	1748908.70	0.21	
5799.00	30.17	27.88	5535.22	55.18	1055.59	547.39	14443226.08	1748929.72	0.96	
5892.00	30.15	27.10	5615.63	57.41	1097.04	566.96	14443267.53	1748951.29	0.42	
5985.00	30.18	25.97	5696.04	58.87	1138.84	589.84	14443309.33	1748972.17	0.61	
6078.00	30.32	26.11	5776.38	59.92	1180.94	610.40	14443351.43	1748992.74	0.17	
6170.00	30.17	25.30	5855.85	60.70	1222.69	630.50	14443393.16	1749012.84	0.47	
6263.00	30.06	25.20	5936.30	61.10	1264.90	650.41	14443435.39	1749032.74	0.13	
6356.00	29.89	23.92	6016.86	60.95	1307.15	669.72	14443477.64	1749052.05	0.71	
6448.00	29.46	22.99	6096.80	59.92	1348.94	687.85	14443519.43	1749070.18	0.68	
6541.00	29.30	24.30	6177.83	59.04	1390.73	706.15	14443561.22	1749088.48	0.71	
6634.00	29.23	23.72	6258.97	58.46	1432.26	724.65	14443602.75	1749106.98	0.31	
6680.00	28.64	26.58	6299.22	58.61	1452.40	734.10	14443622.89	1749116.43	3.27	
6727.00	28.08	34.14	6340.60	60.77	1471.64	745.35	14443642.13	1749127.68	7.73	
6773.00	28.94	41.67	6381.03	65.78	1488.92	758.83	14443659.41	1749141.16	8.03	
6819.00	29.97	48.32	6421.10	73.61	1504.87	774.82	14443675.36	1749157.15	7.45	
6866.00	30.57	55.81	6461.70	84.48	1519.40	793.48	14443689.89	1749175.81	8.13	
6912.00	30.78	64.28	6501.28	98.01	1531.09	813.77	14443701.58	1749196.10	9.40	
6959.00	31.28	72.79	6541.58	114.75	1539.92	836.27	14443710.41	1749218.60	9.39	
7005.00	31.65	81.49	6580.84	133.73	1545.24	859.62	14443715.73	1749241.96	9.90	
7051.00	33.06	88.66	6619.71	155.10	1547.32	884.11	14443717.81	1749266.44	8.88	
7098.00	34.74	95.37	6658.73	179.26	1546.37	910.27	14443716.86	1749292.60	8.72	
7144.00	37.13	100.69	6695.98	205.10	1542.57	936.98	14443713.06	1749319.31	8.54	
7190.00	40.00	102.97	6731.95	233.04	1536.67	965.03	14443707.16	1749347.36	6.96	
7237.00	42.99	105.39	6767.15	263.65	1529.03	995.21	14443699.52	1749377.54	7.22	
7283.00	44.03	108.05	6800.51	295.01	1519.91	1025.53	14443690.40	1749407.87	4.58	
7329.00	44.61	110.52	6833.43	326.99	1509.29	1055.86	14443679.78	1749438.19	3.96	
7376.00	46.65	112.05	6866.29	360.53	1497.09	1087.16	14443667.58	1749469.49	4.92	
7422.00	48.95	112.90	6897.19	394.57	1484.06	1118.65	14443654.55	1749500.98	5.18	
7469.00	50.84	113.90	6927.47	430.51	1469.78	1151.63	14443640.27	1749533.97	4.34	
7515.00	52.76	115.45	6955.91	466.66	1454.69	1184.48	14443625.18	1749566.81	4.94	
7561.00	55.01	117.91	6983.03	503.79	1437.99	1217.67	14443608.48	1749600.00	6.53	
7608.00	58.16	120.32	7008.91	542.89	1418.90	1251.93	14443589.39	1749634.26	7.95	
7654.00	60.77	122.29	7032.28	582.25	1398.31	1285.77	14443568.80	1749668.10	6.77	
7701.00	62.86	124.36	7054.48	623.21	1375.54	1320.38	14443546.03	1749702.71	5.90	
7747.00	64.86	125.67	7074.74	663.84	1351.85	1354.19	14443522.34	1749736.52	5.04	
7793.00	67.30	127.99	7093.40	704.95	1326.64	1387.84	14443497.13	1749770.17	7.03	
7840.00	70.54	130.35	7110.30	747.41	1298.94	1421.82	14443469.43	1749804.16	8.33	
7886.00	75.18	131.64	7123.85	789.59	1270.11	1454.99	14443440.60	1749837.32	10.44	
7932.00	77.77	132.02	7134.61	832.34	1240.28	1488.31	14443410.77	1749870.64	5.69	
7979.00	80.41	132.68	7143.51	876.33	1209.19	1522.41	14443379.68	1749904.74	5.78	
8025.00	84.70	133.57	7149.47	919.60	1178.02	1555.69	14443348.51	1749938.03	9.52	
8071.00	90.12	134.48	7151.54	962.96	1146.10	1588.72	14443316.59	1749971.05	11.95	
8118.00	89.88	133.87	7151.54	1007.29	1113.34	1622.43	14443283.83	1750004.76	1.39	
8211.00	90.25	133.69	7151.44	1095.21	1049.00	1689.58	14443219.49	1750071.91	0.44	
8303.00	91.29	131.28	7150.20	1182.82	986.87	1757.41	14443157.36	1750139.74	2.85	
8393.00	91.11	131.35	7148.32	1269.06	927.47	1824.99	14443097.95	1750207.33	0.21	
8489.00	90.62	130.64	7146.87	1361.22	864.50	1897.44	14443034.99	1750279.77	0.90	
8581.00	90.86	129.11	7145.68	1450.02	805.52	1968.04	14442976.01	1750350.37	1.68	
8674.00	91.29	129.62	7143.93	1540.00	746.55	2039.93	14442917.04	1750422.26	0.72	
8767.00	90.74	127.06	7142.29	1630.37	688.87	2112.85	14442859.36	1750495.19	2.82	
8860.00	90.49	125.05	7141.29	1721.55	634.14	2188.03	14442804.63	1750570.36	2.18	
8952.00	90.56	125.79	7140.45	1811.96	580.82	2263.00	14442751.32	1750645.33	0.81	
9045.00	90.74	127.60	7139.39	1902.94	525.26	2337.56	14442695.75	1750719.89	1.96	
9138.00	89.69	129.86	7139.04	1993.18	467.08	2410.11	14442637.57	1750792.44	2.68	
9231.00	89.82	128.98	7139.44	2083.14	408.02	2481.95	14442578.51	1750864.28	0.96	
9323.00	90.12	128.85	7139.49	2172.34	350.23	2553.53	14442520.72	1750935.86	0.36	

RECEIVED
Office of Oil and Gas
JUL 12 2017
WV Department of
Environmental Protection

SD Survey Report

Survey Points: (Relative to Slot centre)(TVD relative to Drill Floor)										
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	VS (US ft)	N.Offset (US ft)	E.Offset (US ft)	Northing (US ft)	Easting (US ft)	DLS (°/100US ft)	Comment
9416.00	90.25	132.45	7139.19	2261.77	289.66	2624.08	14442460.15	1751006.41	3.87	
9509.00	90.37	134.53	7138.68	2349.83	225.66	2691.55	14442396.15	1751073.88	2.24	
9602.00	90.25	135.60	7138.18	2437.05	159.82	2757.23	14442330.32	1751139.56	1.16	
9694.00	90.43	135.11	7137.63	2523.16	94.37	2821.88	14442264.86	1751204.21	0.57	
9787.00	90.18	133.86	7137.14	2610.69	29.21	2886.23	14442199.70	1751270.56	1.37	
9880.00	90.00	128.81	7136.99	2699.80	-32.20	2958.03	14442138.29	1751340.36	5.43	
9972.00	90.06	129.14	7136.94	2788.98	+90.06	3029.56	14442080.43	1751411.89	0.36	
10065.00	90.00	129.93	7136.90	2878.90	-149.26	3101.28	14442021.23	1751483.61	0.85	
10158.00	90.00	131.24	7136.90	2968.36	-209.76	3171.91	14441960.73	1751554.24	1.41	
10251.00	89.94	130.67	7136.94	3057.67	-270.72	3242.14	14441899.77	1751624.47	0.62	
10343.00	90.18	130.75	7136.85	3146.12	-330.73	3311.88	14441839.76	1751694.21	0.27	
10436.00	89.51	127.75	7137.10	3236.15	-389.56	3383.89	14441780.93	1751766.22	3.31	
10529.00	90.12	129.38	7137.40	3326.46	-447.54	3456.60	14441722.95	1751838.93	1.87	
10622.00	89.38	127.15	7137.81	3416.87	-505.13	3529.62	14441665.36	1751911.95	2.53	
10714.00	89.51	127.21	7138.70	3506.71	-560.72	3602.91	14441609.77	1751985.24	0.16	
10807.00	89.38	126.68	7139.60	3597.61	-616.62	3677.24	14441553.87	1752059.57	0.59	
10900.00	89.57	128.97	7140.45	3688.19	-673.64	3750.69	14441496.85	1752133.02	2.47	
10993.00	89.26	129.40	7141.40	3778.25	-732.40	3822.77	14441438.09	1752205.10	0.57	
11085.00	89.32	129.75	7142.54	3867.18	-791.01	3893.68	14441379.48	1752276.01	0.39	
11178.00	89.26	129.16	7143.69	3957.12	-850.10	3965.48	14441320.39	1752347.81	0.64	
11271.00	89.51	130.25	7144.69	4046.97	-909.51	4037.02	14441260.98	1752419.35	1.20	
11363.00	89.26	130.98	7145.68	4135.46	-969.39	4106.85	14441201.10	1752489.19	0.84	
11456.00	89.45	130.81	7146.72	4224.78	-1030.27	4177.15	14441140.22	1752559.48	0.27	
11549.00	89.44	130.32	7147.63	4314.26	-1090.75	4247.79	14441079.74	1752630.13	0.53	
11642.00	88.58	130.46	7149.23	4403.80	-1151.00	4318.62	14441019.49	1752700.95	0.94	
11734.00	88.83	130.14	7151.31	4492.41	-1210.49	4388.76	14440960.00	1752771.10	0.44	
11827.00	89.21	130.94	7152.90	4581.89	-1270.93	4459.43	14440899.56	1752841.76	0.95	
11920.00	89.26	130.02	7154.14	4671.40	-1331.30	4530.16	14440839.19	1752912.49	0.99	
12013.00	89.32	129.52	7155.30	4761.21	-1390.79	4601.64	14440779.70	1752983.97	0.54	
12105.00	89.51	129.99	7156.24	4850.07	-1449.62	4672.36	14440720.87	1753054.69	0.55	
12198.00	89.45	130.62	7157.08	4939.66	-1509.77	4743.28	14440660.72	1753125.61	0.68	
12291.00	89.14	129.70	7158.22	5029.31	-1569.75	4814.35	14440600.74	1753196.68	1.04	
12383.00	89.57	129.83	7159.26	5118.16	-1628.59	4885.06	14440541.90	1753267.39	0.49	
12476.00	89.32	129.44	7160.16	5208.04	-1687.91	4956.68	14440482.58	1753339.01	0.50	
12569.00	89.26	128.51	7161.31	5298.18	-1746.40	5028.97	14440424.09	1753411.31	1.00	
12661.00	89.45	129.33	7162.35	5387.37	-1804.19	5100.55	14440366.30	1753482.88	0.91	
12754.00	89.51	128.87	7163.19	5477.46	-1862.84	5172.72	14440307.65	1753555.05	0.50	
12847.00	89.32	128.86	7164.14	5567.65	-1921.20	5245.13	14440249.29	1753627.46	0.20	
12940.00	89.32	129.73	7165.25	5657.66	-1980.09	5317.09	14440190.40	1753699.42	0.94	
13032.00	88.89	129.99	7166.68	5746.47	-2039.05	5387.70	14440131.44	1753770.03	0.55	
13125.00	88.64	131.28	7168.69	5835.90	-2099.60	5458.26	14440070.89	1753840.59	1.41	
13218.00	88.64	130.49	7170.90	5925.21	-2160.45	5528.55	14440010.04	1753910.88	0.85	
13310.00	90.93	133.70	7171.24	6013.01	-2222.11	5596.80	14439948.38	1753979.13	4.29	
13403.00	89.32	130.50	7171.04	6101.76	-2284.45	5665.80	14439886.04	1754048.13	3.85	
13496.00	89.57	129.35	7171.94	6191.51	-2344.13	5737.11	14439826.36	1754119.44	1.27	
13589.00	89.38	129.78	7172.79	6281.42	-2403.37	5808.80	14439767.12	1754191.13	0.51	
13681.00	89.38	129.85	7173.79	6370.25	-2462.27	5879.46	14439708.22	1754261.80	0.08	
13774.00	88.64	129.25	7175.39	6460.15	-2521.48	5951.16	14439649.01	1754333.49	1.02	
13867.00	89.38	128.86	7177.00	6550.25	-2580.07	6023.37	14439590.42	1754405.70	0.90	
13959.00	88.89	130.27	7178.39	6639.18	-2638.66	6094.28	14439531.83	1754476.61	1.62	
14052.00	88.89	129.95	7180.19	6728.84	-2698.56	6165.40	14439471.93	1754547.73	0.34	
14145.00	88.46	131.17	7182.34	6818.30	-2759.02	6236.03	14439411.47	1754618.36	1.39	
14238.00	88.21	131.87	7185.04	6907.31	-2820.64	6305.63	14439349.85	1754687.96	0.80	
14330.00	88.52	129.56	7187.67	6995.71	-2880.62	6375.33	14439289.87	1754757.66	2.53	
14423.00	88.03	130.17	7190.47	7085.46	-2940.21	6446.68	14439230.28	1754829.01	0.84	
14505.00	88.03	130.68	7193.29	7164.36	-2993.35	6509.07	14439177.14	1754891.40	0.62	Last WFT SVY
14528.00	88.03	130.68	7194.08	7185.46	-3008.33	6526.50	14439162.16	1754908.83	0.00	Proj. to TD

RECEIVED
Office of Oil and Gas
JUL 12 2017
WV Department of
Environmental Protection